

FIG. 1

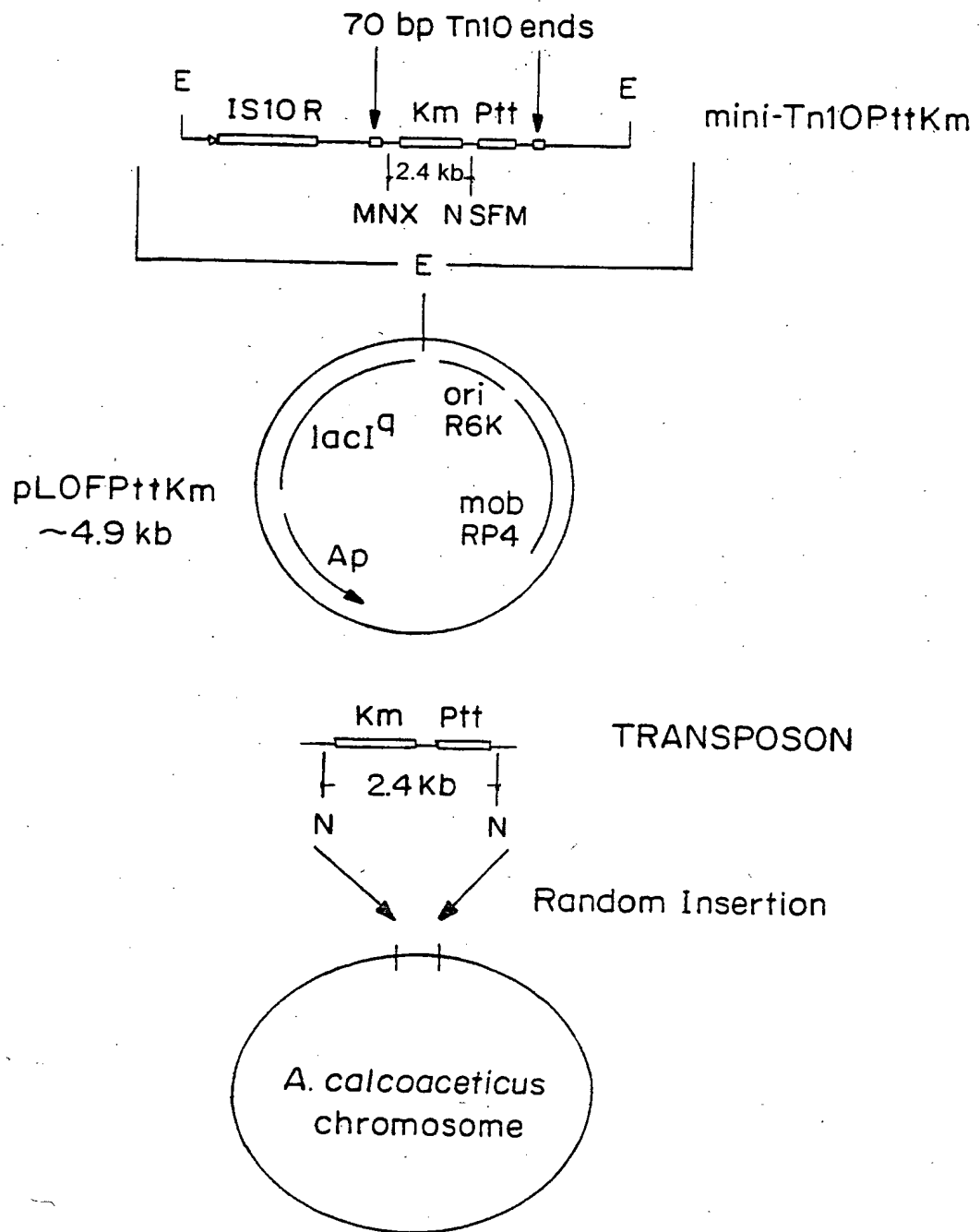


FIG. 2

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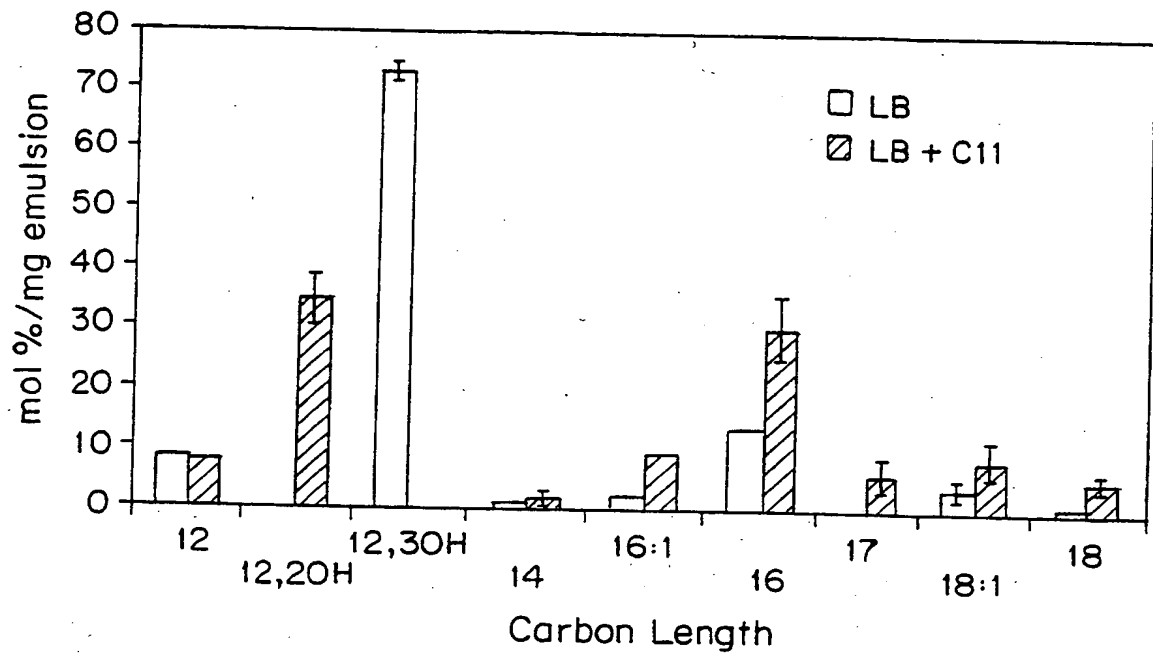


FIG. 3A

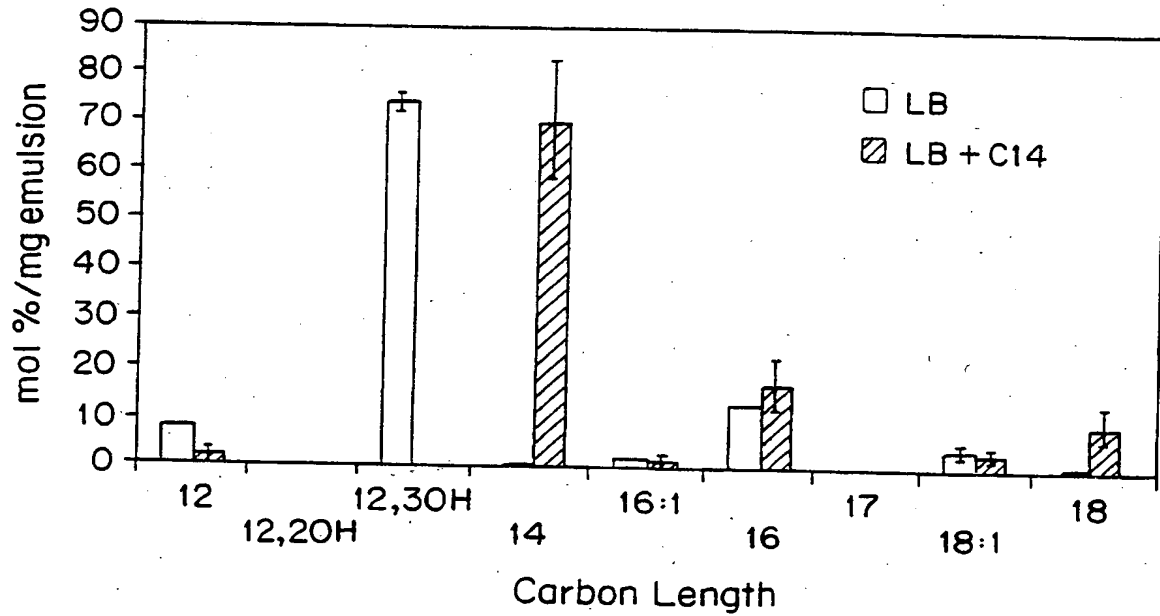


FIG. 3B

Carbon Source	Emulsification Activity in Klett Units		
	Hexadecane (C16)	Tetradecane (C14)	Dodecane (C12)
LB	15 ± 2	12 ± 0	18 ± 3
LB + C11	11 ± 1	8 ± 0	5 ± 0
LB + C14	343 ± 11	208 ± 25	163 ± 95
LB + C16	100 ± 20	5 ± 1	0
LB + C18	145 ± 40	275 ± 30	100 ± 31

FIG. 4A

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Carbon Source	Emulsification Activity in Klett Units		
	Hexadecane (C16)	Tetradecane (C14)	Dodecane (C12)
LB	5 ± 0	0 ± 0	5 ± 0
LB + C11	20 ± 0	5 ± 0	0 ± 0
LB + C14	0	0	0
LB + C16	75 ± 7	5 ± 1	0
LB + C18	235 ± 25	140 ± 20	52 ± 18

FIG. 4B

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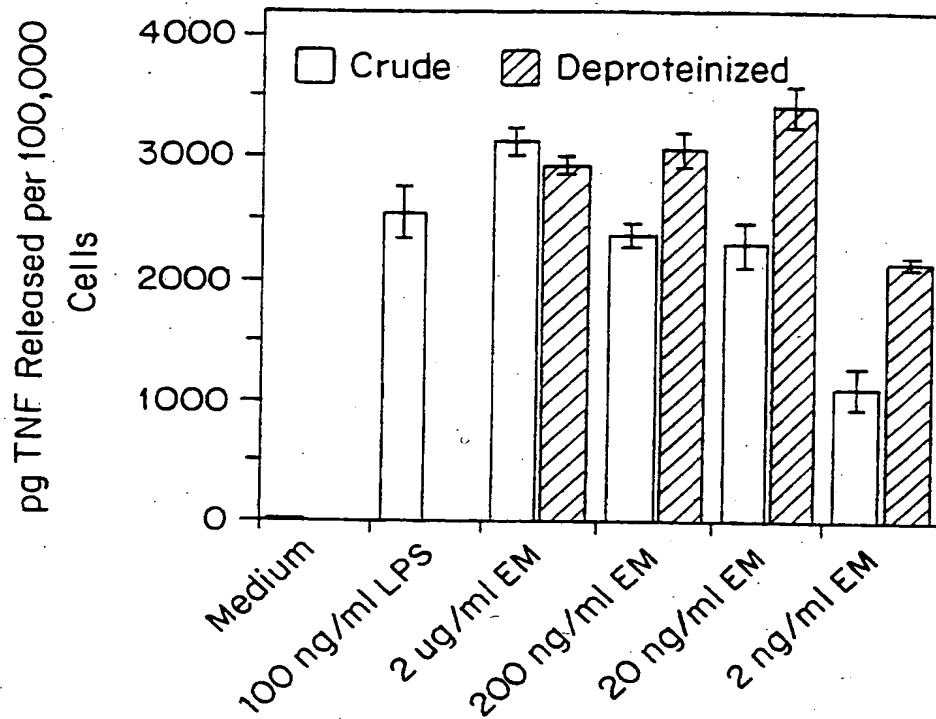


FIG. 5A

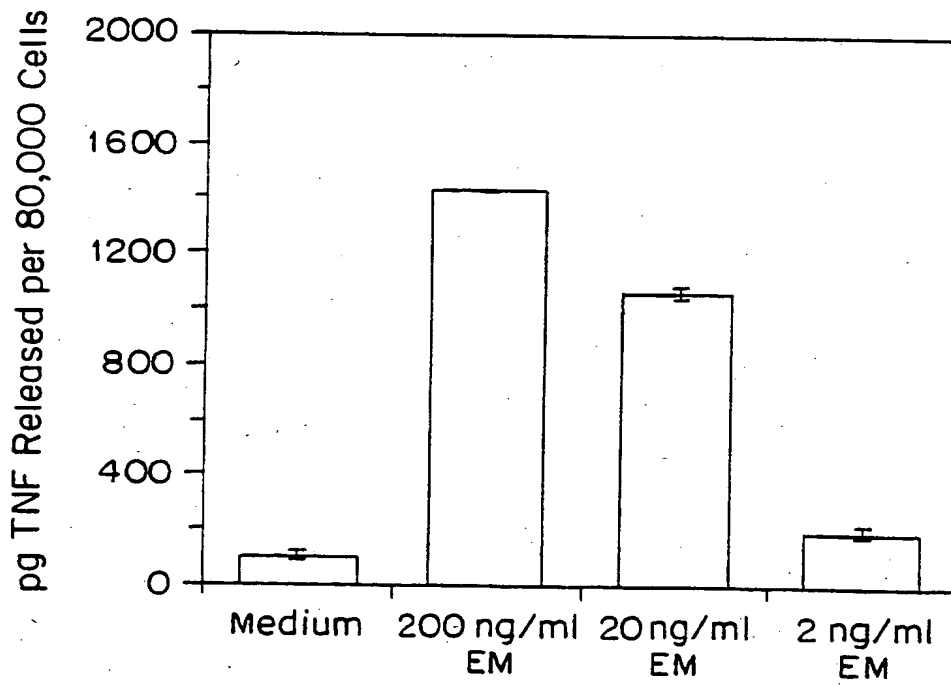


FIG. 5B

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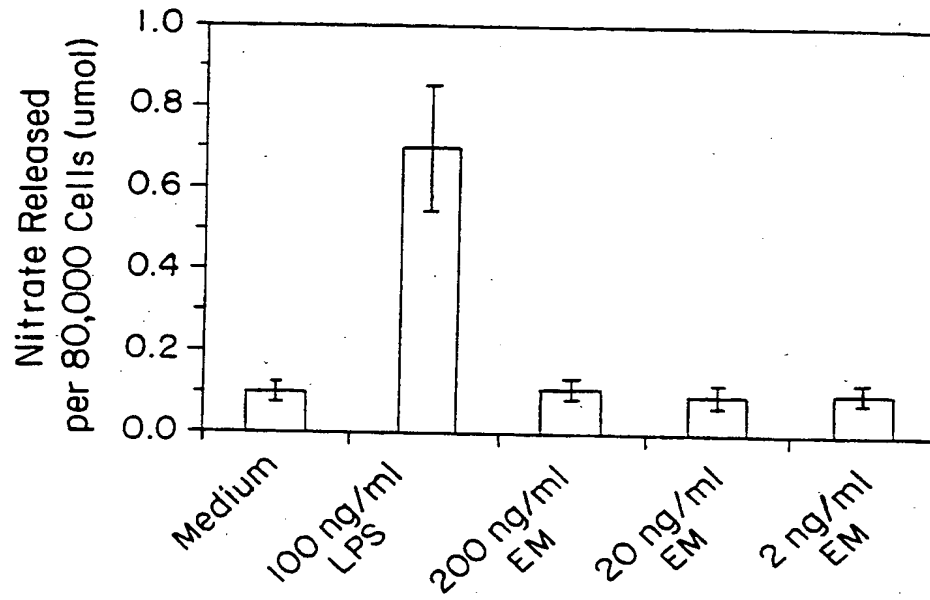


FIG. 6

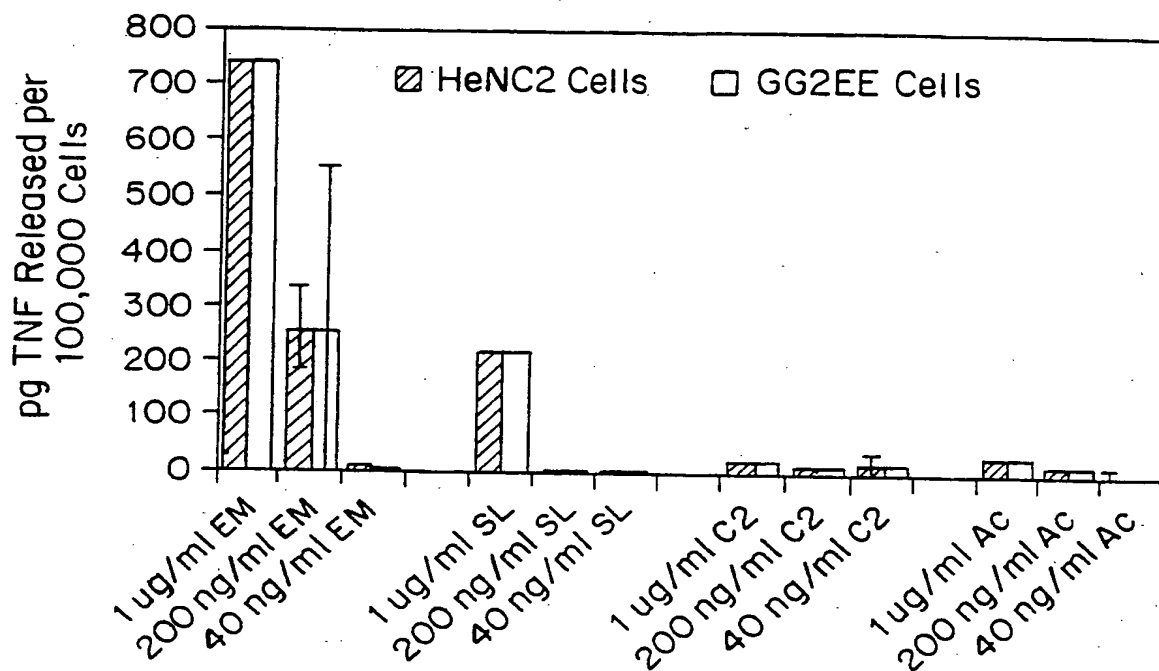


FIG. 7A

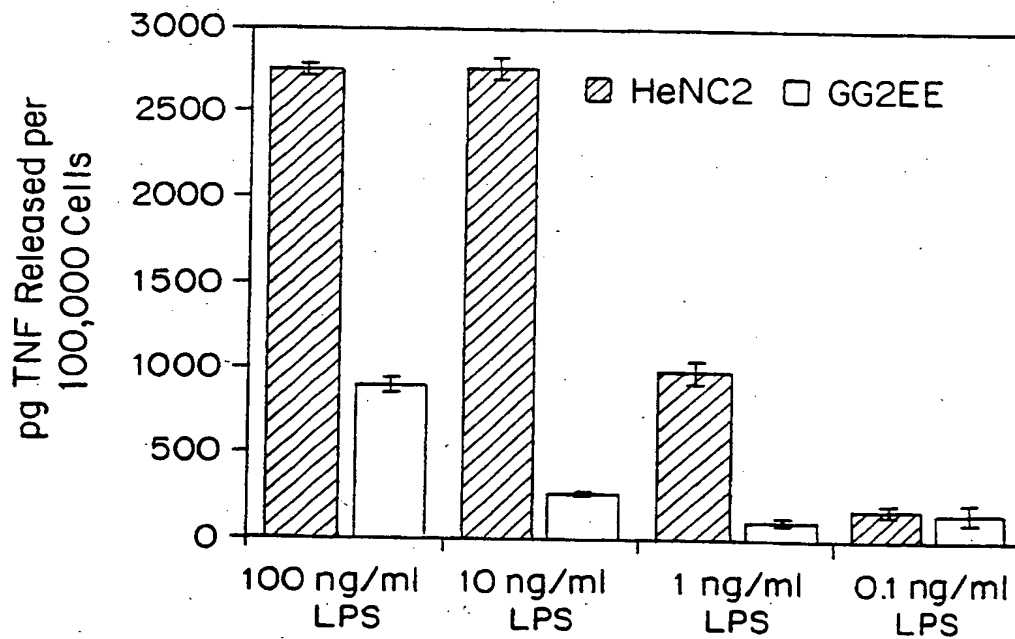


FIG. 7B

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ELISA code	EM1	EM4	EM5	EM6	EM7	EM8	EM9	EM10
A. <i>calcoaceticus</i> strain and culture conditions	RAG-1 on Ethanol	M2 (13D) on C14 saturated	M1 (52D) on C14 saturated	RAG-1 on C15 saturated	RAG-1 on C16 unsaturated	RAG-1 on C17 saturated	RAG-1 on C18 saturated	RAG-1 on C20 saturated
Fatty acid content (nmol/mg Emulsan)								
C12:0	22.65	0.10	2.53	5.91	14.57	9.59	8.26	12.18
C12 (2OH)	58.03		44.68	22.53	19.17	38.99	58.88	38.69
C12 (3OH)	118.41		8.69	46.99	86.75	17.10	99.05	56.13
C14:0		6.15	4.75	1.09		0.89	1.07	1.18
C15:0				5.61		2.81	2.62	
C16:1	8.92	0.08	8.21		17.64	1.59		2.38
C16:0	46.25	1.23	11.35	2.14		4.42	2.25	6.60
C17:0						37.66		
C18:1	11.17	0.25	0.05			0.85		1.66
C18:0	4.62	0.66	0.27	9.01		2.35	3.15	
total	270.06	8.46	80.53	106.31	138.13	117.43	179.06	120.19

FIG. 8

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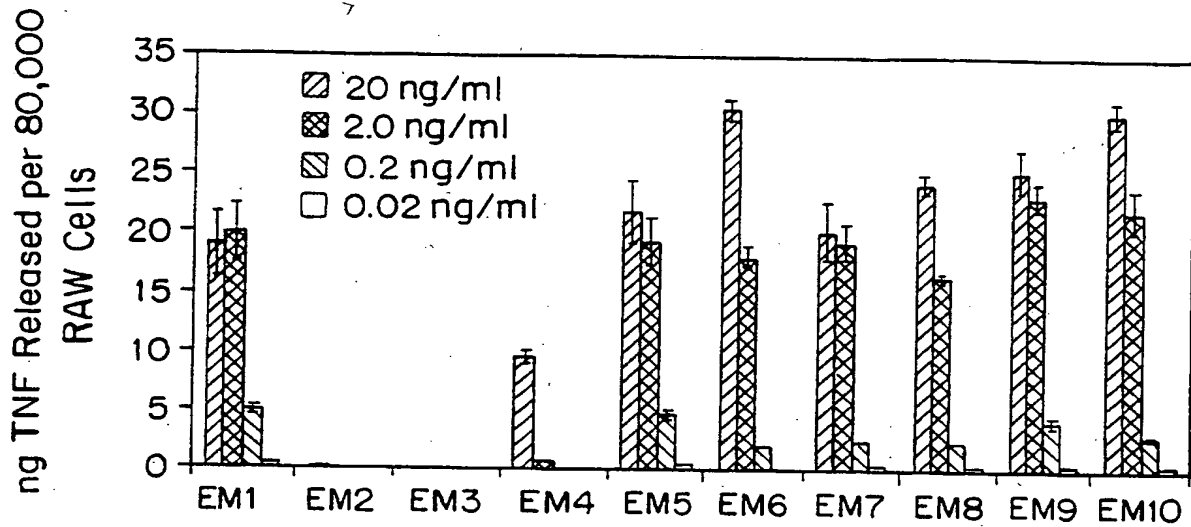


FIG. 9A

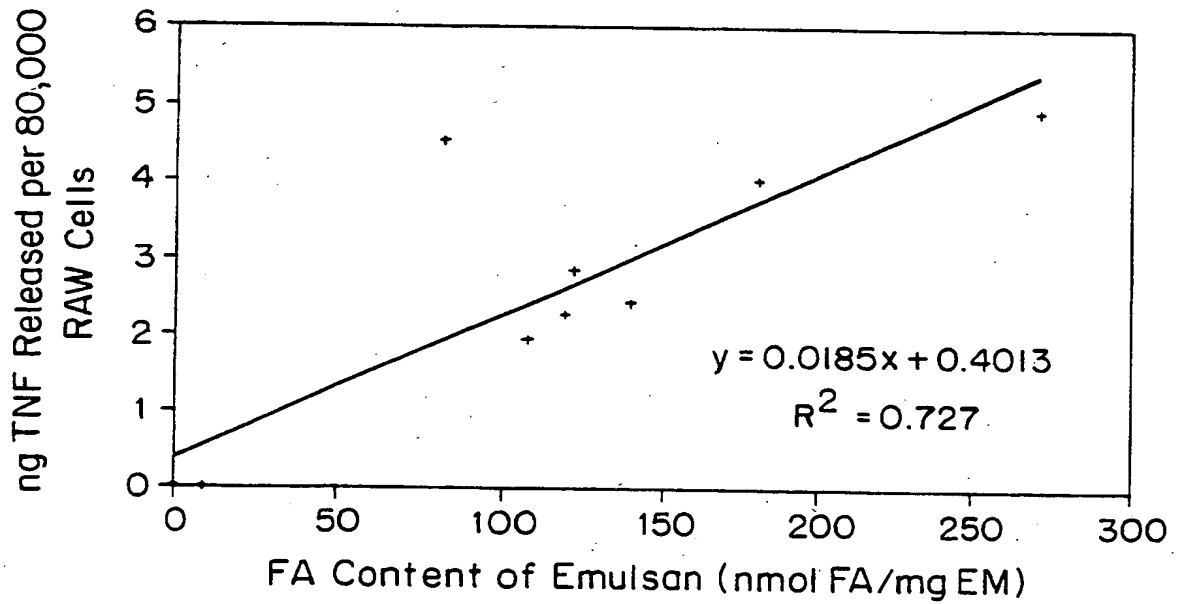


FIG. 9B

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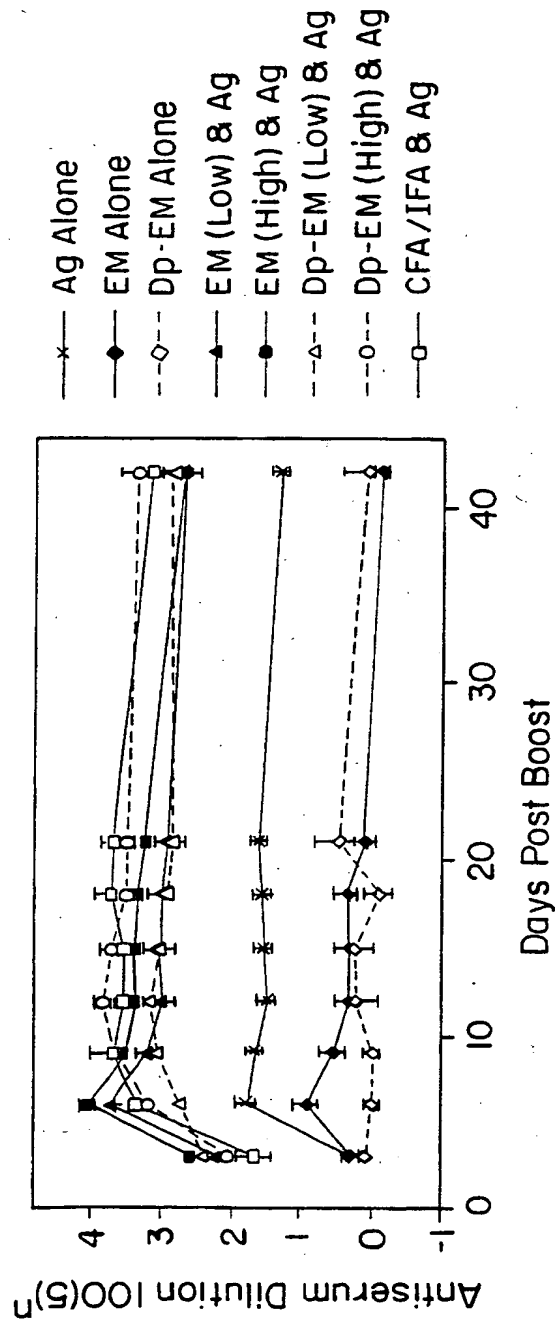


FIG. 10

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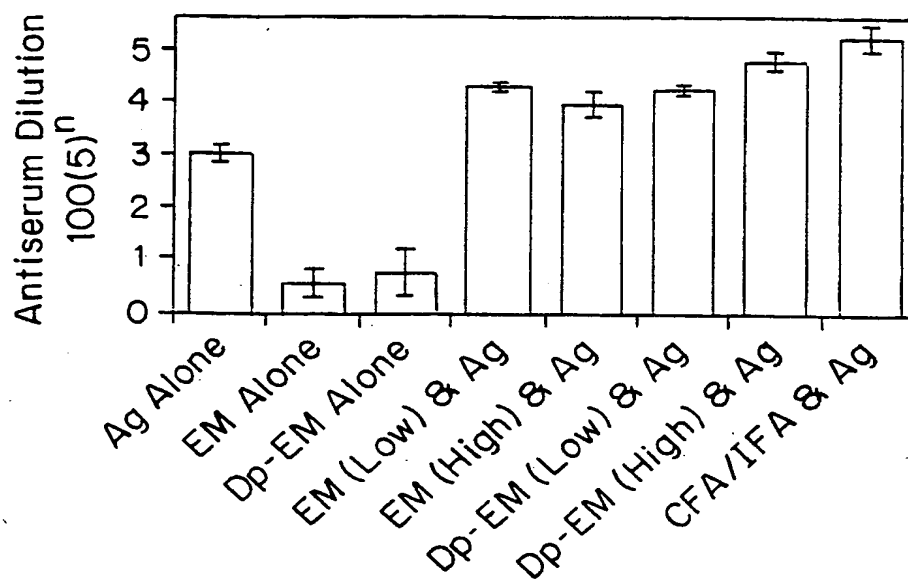


FIG. IIA

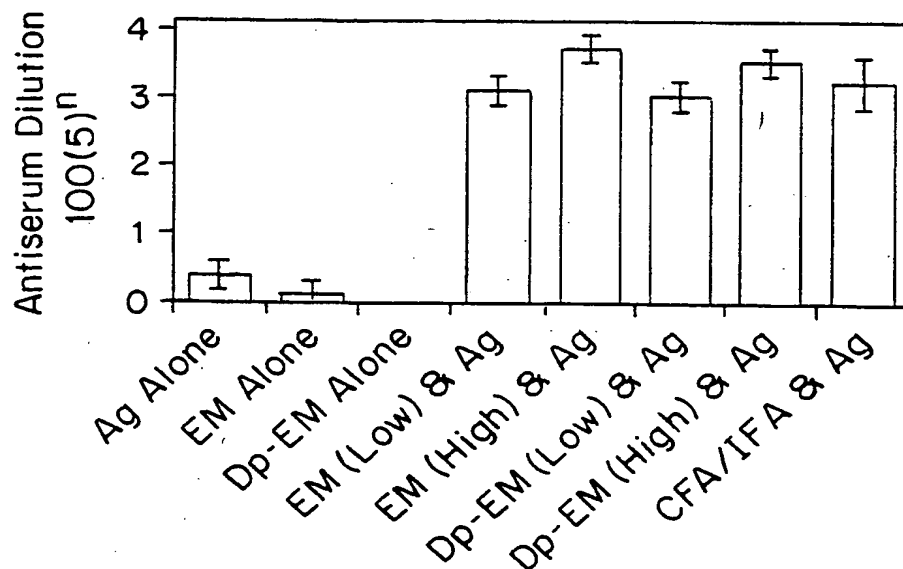


FIG. IIB

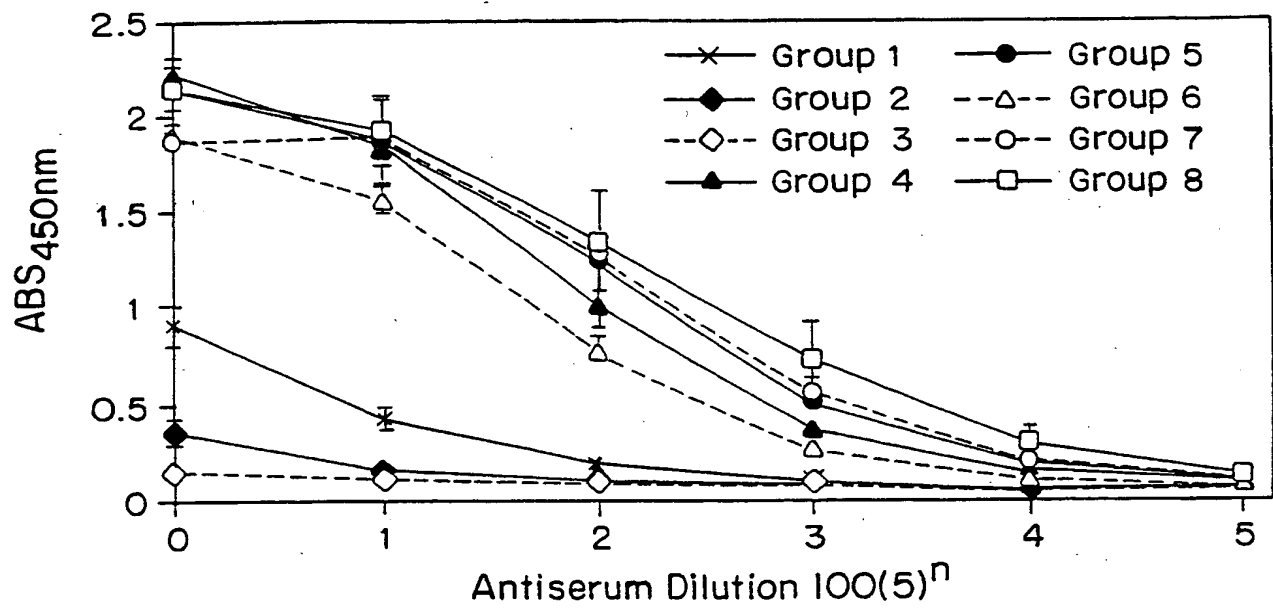


FIG. 12